REMARKS

In furtherance of the undersigned's telephone interviews with the Examiner, Applicants have the following response to the pending Office Action.

Applicants are amending Claims 52-60 to correct grammatical errors therein.

Applicants will address each of the Examiner's rejections in the order in which they appear in the Office Action.

Claim Rejections - 35 USC §103

Claims 1-4, 6-10, 12-18 and 52-53

In the Office Action, the Examiner rejects Claims 1-4, 6-10, 12-18 and 52-53 under 35 USC §103(a) as being unpatentable over Masuda et al. (US 6,107,983) in view of Shinotsuka et al. (US 6,191,408). This rejection is respectfully traversed.

More specifically, independent Claims 1, 7 and 13 of the present application specifically recite that in the claimed device, <u>all</u> the semiconductor elements <u>are n-channel type</u> semiconductor elements. As Applicants explain in depth in the specification, Applicants have discovered that it is particularly advantageous and effective to have a light-emitting device formed of all the semiconductor elements being n-channel type semiconductor elements. The Examiner's attention is particularly directed to page 4, ln. 10 - page 6, ln. 1; page 6, lns. 13-18; page 10, lns. 13-17; and page 21, lns. 1-10 of the specification of the claimed application as examples of the advantages of the present invention. Applicants are unaware of any prior art reference that show a light-emitting device with the claimed elements in which <u>all</u> the semiconductor elements <u>are n-channel type</u> semiconductor elements.

It is respectfully submitted that <u>none</u> of the cited references disclose or suggest that <u>all</u> the semiconductor elements <u>are n-channel type</u> semiconductor elements.

For example, in the Office Action, the Examiner admits that Masuda does not disclose that all the semiconductor elements are n-channel type semiconductor elements, as in independent Claims 1, 7 and 13 of the present application. The Examiner, however, cites Shinotsuka and contends that it "discloses a semiconductor fabrication process in which type of transistors used are n-channel MOS transistors (Q1, Q2) (Fig. 2 (Q1, Q2) and col. 4, lines 41-50)." The Examiner then concludes that "it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Masuda's liquid crystal display system shown in Fig. 2 to adapt Shinotsuka's use of n-channel MOS transistors as demonstrated in Fig. 2 because the use of n-channel MOS transistors helps detect and display an image on a display device as taught by Shinotsuka."

However, even if the references are properly combinable (which Applicants do not admit), even if combined, the combination still fails to disclose or suggest a light emitting device in which <u>all</u> the semiconductor elements are n-channel semiconductor elements (i.e. no reference teaches that all the semiconductor elements are n-channel semiconductor elements).

For example, <u>Shinotsuka</u> does not disclose or suggest the feature of independent Claim 1 of "wherein *all* semiconductor elements in said pixel portion *and* said driver circuit are n-channel type semiconductor elements" (emphasis added). In the Office Action, the Examiner contends that col. 4, lns. 41-50 of <u>Shinotsuka</u> show this feature. However, col. 4, lns. 41-50 is merely directed to a *pixel* portion of a photosensor signal processing apparatus and discloses a photosensor signal processing apparatus including two n-channel MOS transistors. There is <u>no</u> disclosure or suggestion of the driver circuit or what is used therein, and there is no disclosure of what is used throughout the display portion or driver circuit, as those circuits are not discussed. Hence, at the very least, there is

no disclosure or suggestion in Shinotsuka of n-channel semiconductor elements, and especially not all n-channel-type semiconductor elements, in the driver circuit, as required in independent Claim 1. Therefore, there is no disclosure or suggestion of the device of Claim 1. A similar argument applies to independent Claims 7 and 13.

Hence, the Examiner has not produced a prima facie case of obviousness as there has been no showing of a reference or teaching that shows that <u>all</u> the semiconductor elements are n-channel semiconductor elements. Accordingly, this rejection should be withdrawn.

Applicants also respectfully submit that this combination of references is improper.

In order to combine references, MPEP §2143.01 states that there must be some teaching, suggestion, or motivation to combine the references. In this case, there is no such teaching, suggestion or motivation to combine these references as <u>Matsuda</u> and <u>Shinotuka</u> are directed to different products, i.e. a liquid crystal display device (<u>Matsuda</u>) and a photosensor signal processing apparatus (<u>Shinotsuka</u>). One skilled in the art would have no reason or motivation to combine these different products. Hence, the combination of references is improper, and therefore, the rejection based thereon is improper.

Dependent Claims 4 and 10 recite that the driver circuit comprises at least one of an EEMOS circuit and an EDMOS circuit. Shinotsuka does not appear to disclose an EEMOS or an EDMOS, and there has been no showing in the Final Rejection of these elements.

Dependent Claims 2, 8 and 15 recite that the substrate is a plastic substrate. Neither of the cited references discloses or suggests such a substrate, and there has been no showing in the Office Action of this element.

With regard to the rejection of Claims 6, 12 and 17-18, the Examiner discusses liquid crystal display devices, but this is not a feature of these claims.

There also appears to be no specific reasons given for the rejection of Claims 14 and 17 or where the claimed features are allegedly disclosed in the references.

Hence, it is respectfully submitted that Claims 1-4, 6-10, 12-18 and 52-53 are not disclosed or suggested by the cited references, and that the rejection of these claims is improper. Accordingly, it is respectfully requested that this rejection be withdrawn.

Claims 19-21, 23-25, 27-29, 31-33, 35-37, 40-41, 43-51 and 55-60

The Examiner also rejects Claims 19-21, 23-25, 27-29, 31-33, 35-37, 40-41, 43-51 and 55-60 under 35 USC §103(a) as being unpatentable over Matsuda in view of Shinotsuka and Tsutsumi et al. (US 6,713,748). This rejection is also respectfully traversed.

For at least the reasons discussed above, these claims are also patentable over the cited references and that the rejection of these claims is improper.

Further, independent Claims 19 and 24 recite the features of a buffer circuit, and first and second semiconductor elements being connected in series. Claims 28 and 32 recite the feature that the driver circuit contains a plurality of flip-flop circuits. The other independent claims recite other specific features. There appears to be no discussion in the Office Action as to where these claimed features are disclosed or suggested by the cited references. Hence, the Examiner has failed to make a prima facie case of obviousness, and the rejection of each of these claims should be withdrawn.

Further, Claims 20, 25, 29, 33, 37, 43 recite a plastic substrate while Claims 46-51 recite other specifics. The Office Action, however, does not specify where these specific features are allegedly disclosed in the references.

Hence, it is respectfully submitted that Claims 19-21, 23-25, 27-29, 31-33, 35-37, 40-41, 43-

51 and 55-60 are not disclosed or suggested by the cited references, and that the rejection of these

claims is improper. Accordingly, it is respectfully requested that this rejection be withdrawn.

New Claims

Applicants are also adding new dependent Claims 61-69.

As each of these claims is a dependent claim, these claims are allowable for at least the

reasons discussed above for the independent claims. Accordingly, it is requested that these claims be

entered and allowed.

If any fee should be due for these claims, please charge our deposit account 50/1039.

Conclusion

It is respectfully submitted that the present application is in a condition for allowance and

should now be allowed.

If any fee is due for this amendment, please charge our deposit account 50/1039.

Favorable reconsideration is earnestly solicited.

Respectfully submitted,

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18